What is claimed is:

- 1. A fuel cell with improved voltage reversal tolerance, said fuel cell comprising a cathode, an electrolyte, and an anode, and said anode comprising a supported catalyst, wherein the loading of said catalyst on said support is greater than about 40% by weight.
 - 2. The fuel cell of claim 1 wherein said electrolyte is a solid polymer and said fuel cell is a solid polymer electrolyte fuel cell.
 - 3. The fuel cell of claim 1 wherein said catalyst comprises platinum.
 - 4. The fuel cell of claim 1 wherein said support comprises carbon.
- 5. The fuel cell of claim 4 wherein said support comprises acetylene or furnace carbon black.
- 6. A fuel cell with improved voltage reversal tolerance, said fuel cell comprising a cathode, an electrolyte, and an anode, and said anode comprising a supported catalyst wherein the catalyst covers greater than about 6% of the surface of said support.

- 7. The fuel cell of claim 6 wherein the catalyst covers greater than about 9% of the surface of said support.
- 8. A fuel cell with improved voltage reversal tolerance, said fuel cell comprising a cathode, an electrolyte, and an anode, and said anode comprising a supported catalyst, wherein the catalyst/support interface perimeter is less than about 10¹¹ m per gram of catalyst.
- 9. The fuel cell of claim 8 wherein the catalyst/support interface perimeter is less than about 4×10^{10} m per gram of catalyst.
- 10. A fuel cell with improved voltage reversal tolerance, said fuel cell comprising a cathode, an electrolyte, and an anode, and said anode comprising a supported catalyst wherein said support is more resistant to oxidative corrosion than carbon black.

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- 11. The fuel cell of claim 10 wherein said support comprises a graphitic carbon characterized by a d_{002} spacing of less than 3.56 Å.
- 12. The fuel cell of claim 10 wherein said support comprises a graphitic carbon characterized by a d_{002} spacing of about 3.45 Å.

- 13. The fuel cell of claim 10 wherein said support comprises a graphitic carbon characterized by a BET surface area of less than 230 m^2/g .
- 14. The fuel cell of claim 10 wherein said support comprises a graphitic carbon characterized by a BET surface area of about $86~\text{m}^2/\text{g}$.
- 15. The fuel cell of claim 10 wherein said support comprises Ti_4O_7 .
- 16. A method of making a fuel cell more tolerant to voltage reversal, said fuel cell comprising a cathode, a solid polymer electrolyte, and an anode, and said anode comprising a supported catalyst, wherein said method comprises increasing the loading of said catalyst on said support to be greater than about 40% by weight.

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- 17. A method of making a fuel cell more tolerant to voltage reversal, said fuel cell comprising a cathode, a solid polymer electrolyte, and an anode, and said anode comprising a supported catalyst, wherein said method comprises increasing the catalyst coverage of the surface of said support to be greater than about 6%.
- 18. The method of claim 17 comprising increasing the catalyst coverage of the surface of said support to be greater than about 9%.

19. A method of making a fuel cell more tolerant to voltage reversal, said fuel cell comprising a cathode, a solid polymer electrolyte, and an anode, and said anode comprising a supported catalyst, wherein said method comprises decreasing the catalyst/support interface perimeter to be less than about 10¹¹ m per gram of catalyst.

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- 20. The method of claim 19 comprising decreasing the catalyst/support interface perimeter to be less than about 4×10^{10} m per gram of catalyst.
- 21. A method of making a fuel cell more tolerant to voltage reversal, said fuel cell comprising a cathode, a solid polymer electrolyte, and an anode, and said anode comprising a supported catalyst, wherein said method comprises employing a support for said catalyst that is more resistant to oxidative corrosion than carbon black.